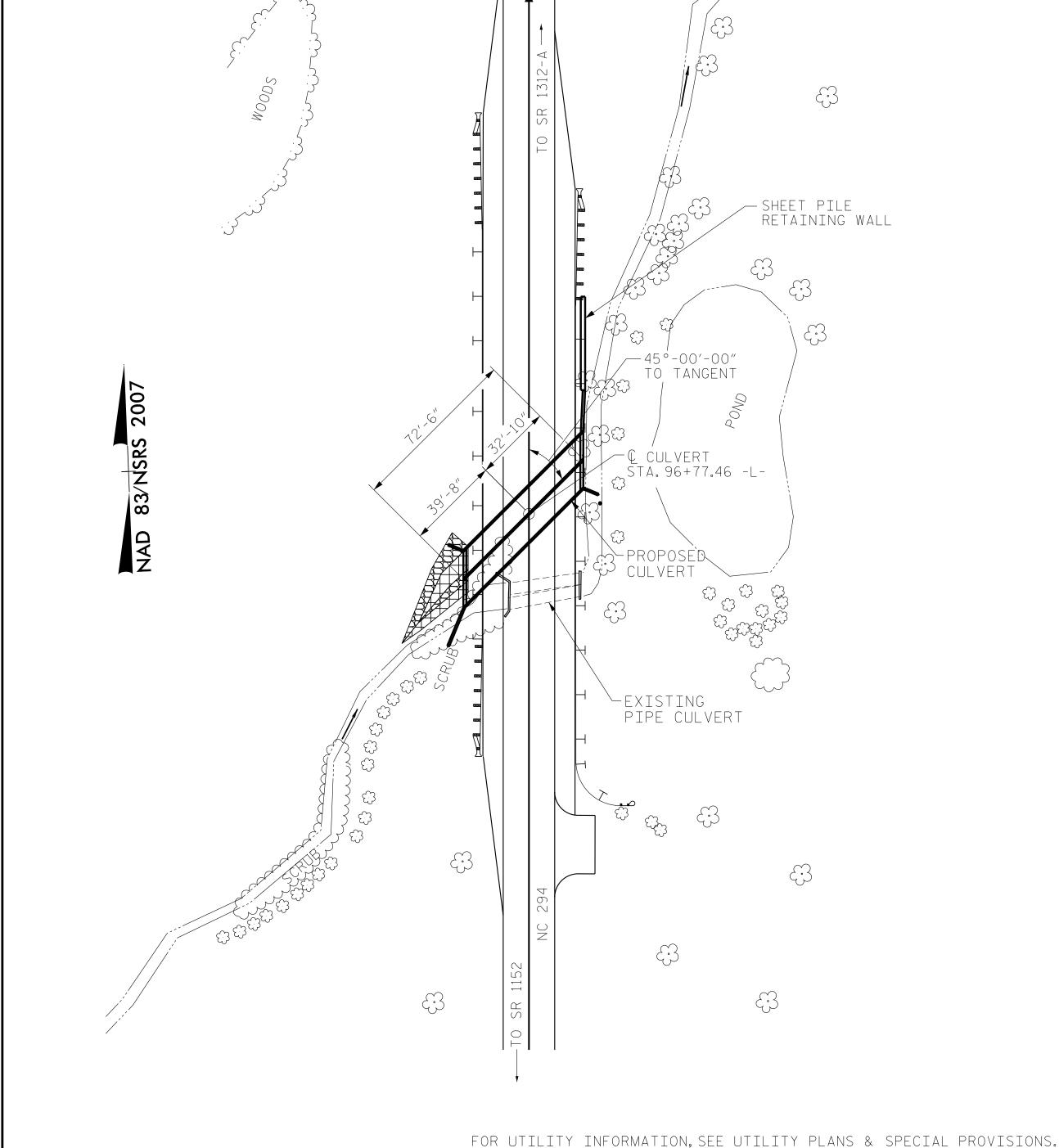
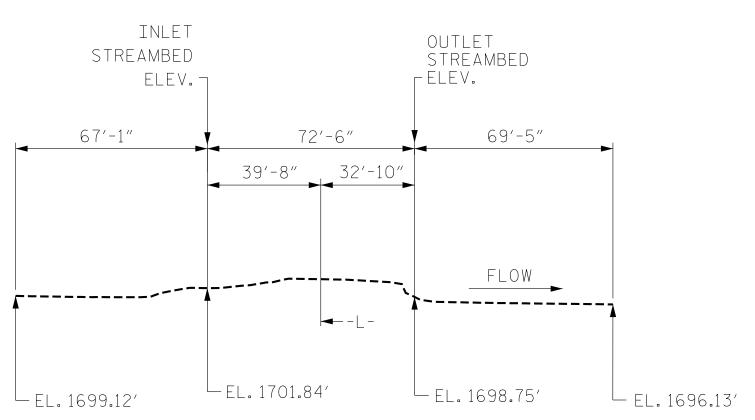
BM #9: RR SPIKE IN TRIPLE 36'POPLAR TREE, STA. 101+25.00 -L- 225'RT. N 524326 E446532, EL. 1702.98



LOCATION SKETCH



PROFILE ALONG Q CULVERT

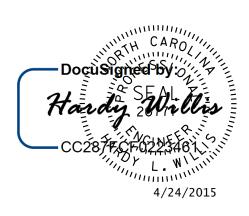
HYDRAULIC DATA	1
DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION BASE DISCHARGE BASE FREQUENCY BASE HW ELEVATION DRAINAGE AREA	400 CFS 50 YRS 1703.1 FT 480 CFS 100 YRS 1703.38 FT 0.89 SQ. MI.
OVERTOPPING FLOOD	DATA
OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEVATION	550 CFS 100 + YRS 1703.9 FT
GRADE DATA	

GRADE POINT ELEV. @ STA. 96+77.46 -L-

BED ELEV. @ STA. 96+77.46 -L-

ROADWAY SLOPES

TOTAL STRUC	TURE QUAN	TIT	IES
CLASS A CONCRETE TOTAL	160.9		C.Y.
REINFORCING STEEL TOTAL	22,405		LBS.
STEEL SHEET PILING	400		SQ.FT.
CULVERT EXCAVATION		LUI	MP SUM
GEOTEXTILE FABRIC FOUNDATION CONDITI REMOVAL OF EXISTIN		276	
RIP RAP CLASS II		30	TONS



1706.61 FT

1696.89 FT

NOTES:

ASSUMED LIVE LOAD -----HL-93

DESIGN FILL------MAX. = 3.40' MIN. = 1.40'

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

 $3'' \varnothing$ WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER (STAGE 1 & 2):

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION, HE MAY SUBMIT TO THE ENGINEER FOR APPROVAL DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS

EXCAVATE THREE FEET BELOW THE BOTTOM OF CULVERT AND WING FOOTING ELEVATIONS.PLACE A LAYER OF GEOTEXTILE FABRIC, COVERING THE ENTIRE AREA, IN ACCORDANCE WITH SECTION 270 OF THE STANDARD SPECIFICATIONS.
THEN BACKFILL UP TO BOTTOM OF CULVERT WITH FOUNDATION CONDITIONING
MATERIAL IN ACCORDANCE WITH SECTION 414 OF THE STANDARD SPECIFICATIONS.

FOR SUBMITTAL OF WORKING DRAWINGS. SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE EXISTING STRUCTURE CONSISTING OF 2 @ 66"CORRUGATED METAL PIPE REFER TO TRAFFIC CONTROL PLANS FOR PHASING NOTES.

REMOVAL OF THE EXISTING CULVERT SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

SHEET 1 OF 2

PROJECT NO. R-3622B CHEROKEE COUNTY 96+77**.**46 -L-STATION:_

☐ Tri-Cities, TN ☐ Knoxville, TN 864 • 574 • 4775 ☐ Charleston, SC Charlotte, ■ North Carolina

843 • 974 • 5650 ☐ Middlesboro, KY 606 • 248 • 6600

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DOUBLE 8' X 6' CONCRETE BOX CULVERT 45° SKEW

> SHEET NO. S-1

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DWN. BY: RWW	DATE: MAR	2015	REVISIONS			
CHKD, BY: HI W	DATE: MAR	2015	NO. BY:	DATE:	NO. BY:	DATE:
	DATE: WAR	2015	র		3	
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